

Title (en)
POLYMER

Title (de)
POLYMER

Title (fr)
POLYMER

Publication
EP 3190141 A1 20170712 (EN)

Application
EP 17150883 A 20170110

Priority
• US 201662277091 P 20160111
• TW 105142916 A 20161223

Abstract (en)
A polymer is provided. The polymer has a repeating unit having a structure represented by Formula (I) or Formula (II) wherein Ar 1 and Ar 2 can be substituted or unsubstituted aryl diradical; Y - can be R 2 SO 3 - or ClO 4 - ; R 1 can be C 1-6 alkyl; Ar 1 and Ar 2 are different; and, R 2 can be C 1-6 alkyl, substituted or unsubstituted aromatic ring, or C 1-6 haloalkyl.

IPC 8 full level
C08G 75/0204 (2016.01); **C07C 315/00** (2006.01); **C07C 317/22** (2006.01); **C07C 323/00** (2006.01); **C08G 75/025** (2016.01); **C08J 5/00** (2006.01)

CPC (source: EP)
C08G 75/0204 (2013.01); **C08G 75/025** (2013.01)

Citation (search report)
• [X] WO 2015033936 A1 20150312 - DAINIPPON INK & CHEMICALS [JP], et al & EP 3042924 A1 20160713 - DAINIPPON INK & CHEMICALS [JP], et al
• [X] WO 2015033938 A1 20150312 - DAINIPPON INK & CHEMICALS [JP], et al & EP 3034542 A1 20160622 - DAINIPPON INK & CHEMICALS [JP], et al
• [X] TSUCHIDA E ET AL: "SYNTHESIS OF POLY(PHENYLENE SULFIDE) BY O2 OXIDATIVE POLYMERIZATION OF METHYL PHENYL SULFIDE", MACROMOLECULES, AMERICAN CHEMICAL SOCIETY, US, vol. 27, no. 4, 14 February 1994 (1994-02-14), pages 1057 - 1060, XP000427148, ISSN: 0024-9297, DOI: 10.1021/MA00082A027
• [X] KIMIHIISA YAMAMOTO ET AL: "Synthesis of Poly(sulfonium cation) by Oxidative Polymerization of Aryl Alkyl Sulfides", THE JOURNAL OF ORGANIC CHEMISTRY, vol. 60, no. 2, 1 January 1995 (1995-01-01), pages 452 - 453, XP055355369, ISSN: 0022-3263, DOI: 10.1021/jo00107a027
• [X] KIMIHIISA YAMAMOTO ET AL: "Aryl sulfide bond formation using the sulfoxide-acid system for synthesis of poly(p-phenylene sulfide) via poly(sulfonium cation) as a precursor", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 115, no. 13, 1 June 1993 (1993-06-01), pages 5819 - 5820, XP055355371, ISSN: 0002-7863, DOI: 10.1021/ja00066a058
• [X] EISHUN TSUCHIDA ET AL: "SYNTHESIS OF HIGH MOLECULAR WEIGHT POLY(PHENYLENE SULFIDE) BY OXIDATIVE POLYMERIZATION VIA POLY(SULFONIUM CATION) FROM METHYL PHENYL SULFOXIDE", MACROMOLECULES, AMERICAN CHEMICAL SOCIETY, US, vol. 26, no. 26, 20 December 1993 (1993-12-20), pages 7144 - 7148, XP000416281, ISSN: 0024-9297, DOI: 10.1021/MA00078A005

Cited by
EP3438092A1; US10723841B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3190141 A1 20170712; EP 3190141 B1 20240724

DOCDB simple family (application)
EP 17150883 A 20170110